

JAN 04 2002

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION
USING AN APPLICATION DATA SHEET (37 CFR 1.76)**

As the below named inventor(s), I/we declare that:

This declaration is directed to:

The attached application, or

Application No. 09/882,283, filed on June 14, 2001,

as amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**METHOD FOR ITERATIVE AND NON-ITERATIVE DATA DETECTION USING REDUCED-STATE
SOFT-INPUT/SOFT-OUTPUT ALGORITHMS FOR COMPLEXITY REDUCTION**

I/we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application, if applicable; and

All statements made herein of my/our own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR(S)Inventor one Xiaopeng Chen Date: 09/20/01Signature: [Signature] Citizen of: ChinaInventor two Keith M. Chugg Date: _____Signature: _____ Citizen of: United States

Inventor three _____ Date: _____

Signature: _____ Citizen of: _____

Inventor four _____ Date: _____

Signature: _____ Citizen of: _____

 Additional inventors are being named on _____ additional form(s) attached hereto.

Burden Hour Statement: This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is used by the public to file (and the PTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This form is estimated to take 1 minute to complete. This time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3170062 v1

Attorney Docket No.: 020945-001510US

PTO/SB/01A (10-00)

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FULL NAME OF INVENTOR(S)

Inventor one Xiaopeng Chen Date: _____

Signature: _____ Citizen of: China

Inventor two Keith M. Chapp Date: 9/26/01

Signature: Keith M. Chapp Citizen of: United States

Inventor three _____ Date: _____

Signature: _____ Citizen of: _____

Inventor four _____ Date: _____

Signature: _____ Citizen of: _____

Additional inventors are being named on _____ additional form(s) attached hereto.

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POWER OF ATTORNEY OR
AUTHORIZATION OF AGENT

Application Number	09/882,283
Filing Date	June 14, 2001
First Named Inventor	Ziaopeng Chen et al.
Title	Method for Iterative and Non-Iterative Data Detection Using Reduced-State Soft-Input/Soft-Output Algorithms for Complexity Reduction
Group Art Unit	2631
Examiner Name	Unassigned
Attorney Docket Number	020945-001510US

I hereby appoint:

 Practitioners at Customer Number

OR

 Practitioner(s) named below:

20350

Place Customer
Number Bar Code
Label here

Name	Registration Number
Kenneth R. Allen	27,301
Richard T. Ogawa	37,692
David N. Slone	28,572

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the correspondence address for the above-identified application to:

 The above-mentioned Customer Number.

OR

 Practitioners at Customer Number

<input checked="" type="checkbox"/> Firm or Individual Name	Kenneth R. Allen Townsend and Townsend and Crew LLP				
Address	Two Embarcadero Center, 8th Floor				
Address					
City	San Francisco	State	California	ZIP	94111-3834
Country	United States				
Telephone	(650) 326-2400	Fax	(415) 576-0200		

I am the:

 Applicant/Inventor. Assignee of record of the entire interest. See 37 CFR 3.71.

Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	Dr. Thomas E. Carter, President & CEO			
Signature				
Date	10/22/01			
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.				
<input type="checkbox"/> *Total of _____ forms are submitted.				

Burden Hour Statement: This form is estimated to take 3 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.
PA 3170060 v1

PTO/SB/06 (08-00)
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Attorney Docket No. 020945-001510US

STATEMENT UNDER 37 CFR 3.73(b)

Applicant/Patent Owner: Xiaopeng Chen et al.

Application No./Patent No.: 09/662,283

Filed/Issue Date: June 14, 2001

Entitled: **METHOD FOR ITERATIVE AND NON-ITERATIVE DATA DETECTION USING REDUCED-STATE SOFT-INPUT/SOFT-OUTPUT ALGORITHMS FOR COMPLEXITY REDUCTION**

TheisWare Technologies, Inc.

(Name of Assignee)

(Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

- the assignee of the entire right, title, and interest; or
- an assignee of an undivided part interest

In the patent application/patent identified above by virtue of either:

A. An assignment from the Inventor(s) of the patent application/patent identified above. The assignment was recorded in the Patent and Trademark Office at Reel _____ Frame _____, or for which a copy thereof is attached.

OR

B. A chain of title from the Inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: To :
The document was recorded in the United States Patent and Trademark Office at
Reel _____ Frame _____, or for which a copy thereof is attached.

2. From: To :
The document was recorded in the United States Patent and Trademark Office at
Reel _____ Frame _____, or for which a copy thereof is attached.

3. From: To :
The document was recorded in the United States Patent and Trademark Office at
Reel _____ Frame _____, or for which a copy thereof is attached.

Additional documents in the chain of title are listed on a supplemental sheet.

Copies of assignments or other documents in the chain of title are attached.

(NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.8)

The undersigned (whose title is supplied below) is empowered to sign this statement on behalf of the assignee.

10/22/01

Date

Thomas Carter

Signature

Thomas Carter

Typed or printed name

President and CEO

Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.